1 1/2 /- 7 - 2 - 1 of let ....... These protections that there is presented in retain in paper delivered to feed yours, chief an inear of the Vsesoyuznyy proventno-teknnolo icheskiy isstitut po t lomu maskinostroyemiye (All-emps. Deal a and red ast Institute for Hervy Engineering). In the exercise by A.V. Istomin, director of the rolling-mill section of the Gipromez (State Institute for Metallurgical Ilent in and B.P. Bakhtinov, Candidate of Technical Sciences. director of the rolling-mill laboratory of the fault mitthe development prospects of rolling-mill reductions ferrous retallarey during 1950-1965 were discussed. concrete tasks ischme equipment manufacturers in ore rolling mills and continuous units for t. f. ..... rolling-mill products were c. tablished. A.D. Hart. Candidate of Technical Sciences, chief engineer : TsNIITHASE, electdated the fundamental problem : introduction of new techniques in rolling-mile entropy during 1959-1965, facing both his office and treat plants. Special attention was devoted to rode the first processes which ritherto have not leen outliesely mechanised either in Russia or abroad. Kiroley, A.A. Card 6/a

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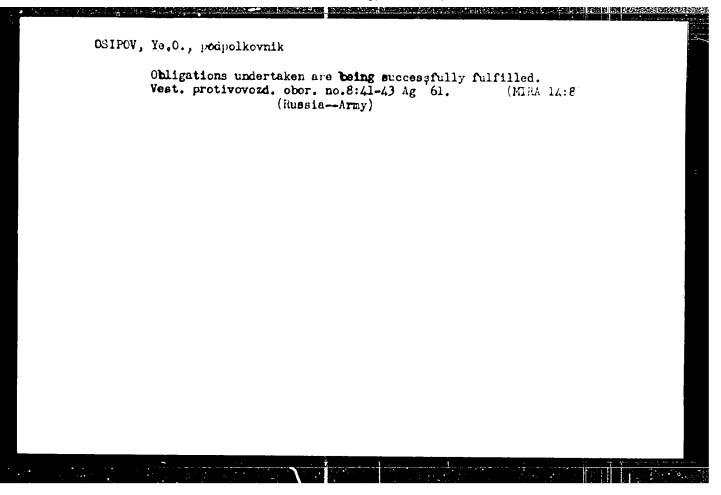
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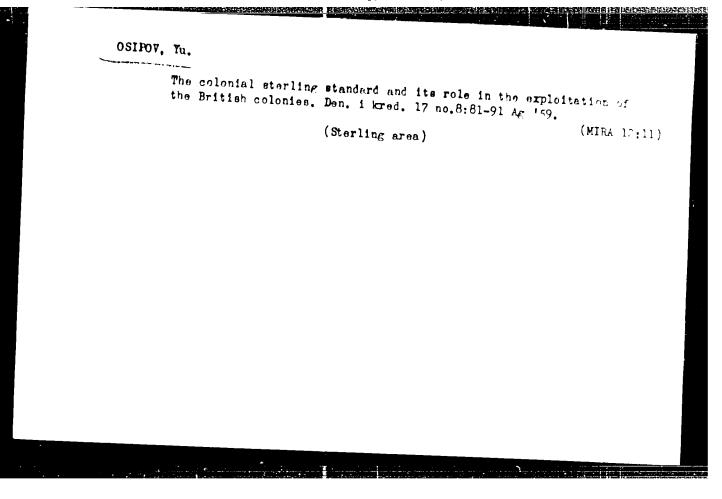
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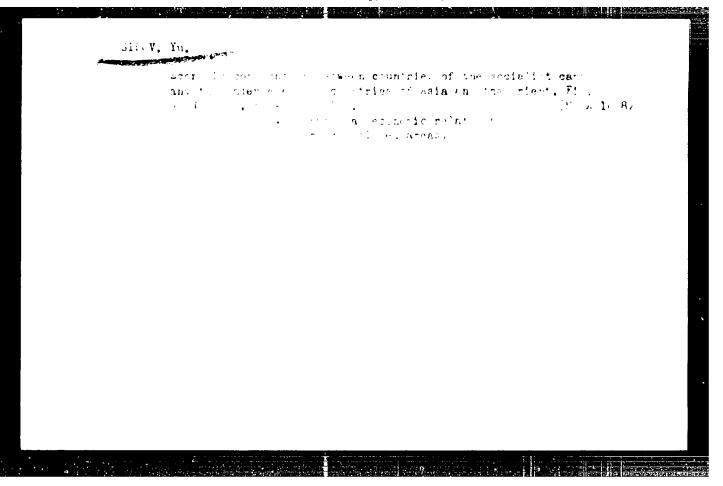
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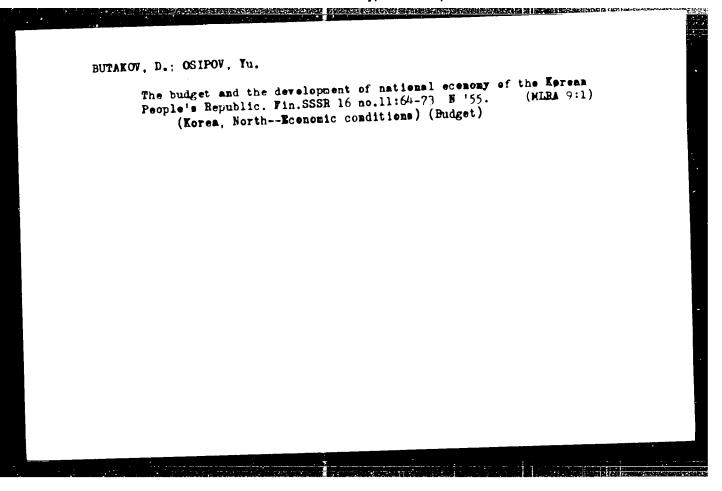


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Features in the analysis of the financial and economic operations of automotive transportation. Fin.SSSR 23 no.6.73-86 Jenton. (ULA 15:7)

(Transportation, Automotive-Finance)
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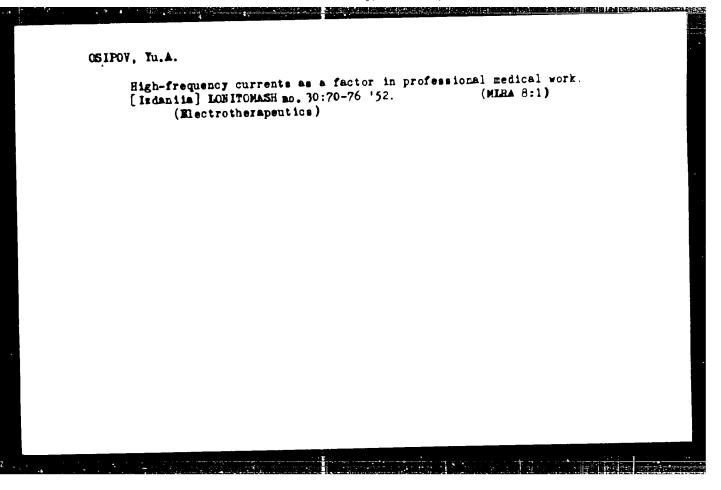


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#### OSIPOV, Yu. A.

Effect of ultra-high frequency currents on workers in electrical plants. Gig. sanit., Moskva no.6:22-23 June 1952. (CLML 23:2)

1. Of Leningrad Scientific-Research Institute of Labor Hygiene and Occupational Diseases.



### OSIPOV, Yu.A.

Hygienic considerations of induction heating of metals with high frequency currents. Gig.i san. no.8:39-42 Ag '53. (MLRA 5:9)

1. Leningradskiy nauchno-issledovatel'skiy institut gigiyeny truda i professional'nykh sabolevaniy. (Industrial hygiene) (Induction heating)

NATADZE, G.M., professor [author]; GALANIN, N.F.; MARKARYAN, M.G.; OSIFOV, Yu.A. [reviewers].

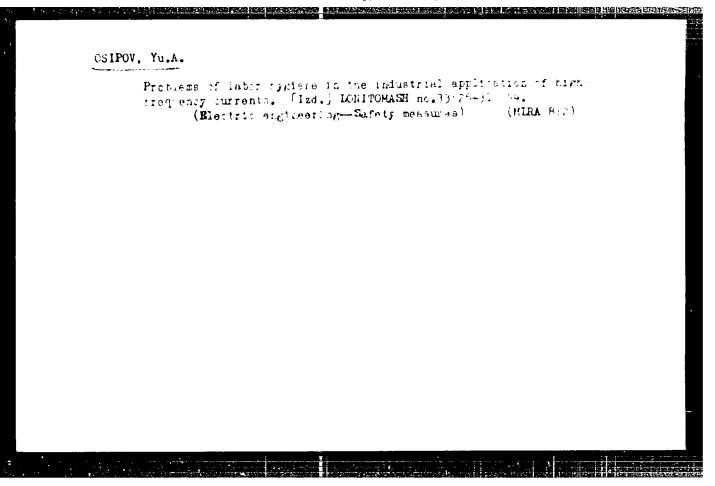
"Principles of hygiene" G.M. Hatadze. Reviewed by M.F. Galanin, M.G. Markarian, IU.A. Osipov. Gig.i san. no.8:57-61 Ag '57.

(Hygiene) (Natadze, G.N.)

- 1. OSTFOV, Yu. A.
- 2. USSP (600)
- 4. Flectricity, Injuries from
- 7. Medical exemination of those working with high frequency currents. Sov. zdrav. 12, No. 3, 1953.

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9. Monthly List of Russian Accessions, Library of Congress, April 1963, Uncl.



AID P - 2193

OSIPOV, YU A

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 13/19

Author : Osipov, Yu. A.

Title : Answer to S. A. Raykher's note

Periodical: Gig. 1 san., 5, 51-52, My 1955

Abstract : The author argues with S. A. Raykher in connection with

the latter's review published in this journal, no. 2 of the current year, of the author's articles on the importance for industrial hygiene of high-frequency currents.

Institution: None

Submitted: Mr 8, 1955

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147-58 1-1181

Translation from: Referat vhyv zhurnal Metallurgiya 1958 Nr., p. 95 USSR

Osipov Yu A AUTHOR:

Problems of Labor Hygiene in the Employment of High-frequency Currents (Voprosy gigiyeev trada pro primenenti tokos vysokov TITLE:

chastoty)

PERIODICAL: Tr Yukileyn nauchn sessii, posvyashch 30-letney devat: sti Gos in it in ta gigiyeny truda i protzabolevaniy. Leningrad

1957 pp 36-43

As a result or a study of the biological effect of high frequen cies and a number of its peculiarities high frequency carrents ABSTRACT:

are regarded as an untavorable factor in terms of workers' health. To eliminate their harmful effect, the following is recommended that the potent alignadient of the induced field at points in a building where people are found be reduced to  $\gamma \propto n$ . a proper procedure for servicing the generator, the presence of workers in zones of quasi-stationary processes only when indispensable, observance of safety regulations in electrical

procedures, care not to clutter buildings with objects capable of acting as antennas, regular medical examination of personne;

Card 1 2

137-58-1-1181

Problems of Labor Hygiene in the Employment of High-frequency Currents

with mandatory participation of a neuropathologist therein, temporary trans fers to work not involving entry into an electromagnetic field. Note is taker of the effectiveness of the reduction of the field voltage by means of metallic shielding which should if possible, encompass all radiating elements of the oscillator and constitute an electrically closed surface

1. High frequency currents--Biological effects 2. High frequency currents

Card 2 2

KULIKOVSKAYA, Ye.L.; OSIPOV, Yu.A. (Leningrad)

Electromagnetic fields on industrial promises with high-frequency heating devices. Gig. truda. i prof. zab. 4 no.6:3-6 Je '60.

1. Institut giglyony truda i profzabolovaniy, Leningrad.

(INDUCTION HEATING-PHYSIOLOGICAL OFFECT)

VOL'FOVSKAYA, R.N., kand.med.nauk; OSIPOV, Yu.A., kand.med.nauk; KOLYADA, T.V.;
KULIKOVSKAYA, Ye.L.; ASANOVA, T.P.; SHCHEGLOVA, A.V., kand.med.nauk

Combined effect of a high-frequency field and X-rays under industrial
conditions. Gig. i san. 26 no.5:18-23 My '61. (MIGA 15'4)

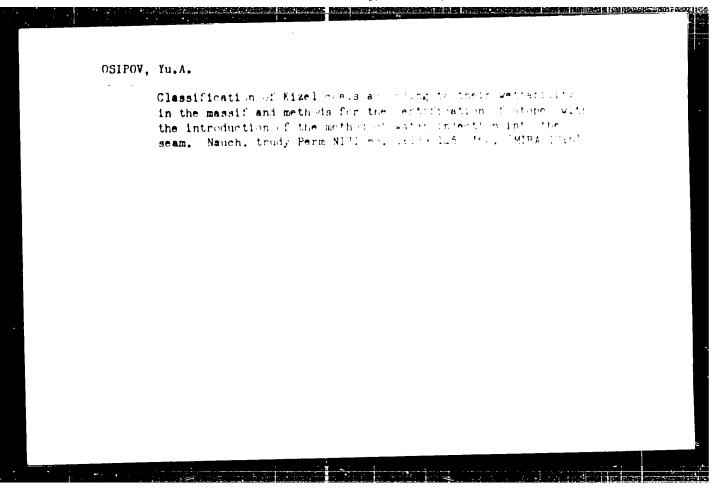
1. Iz Leningradskogo instituta gigiyony truda i professional'nykh
zabolovaniy.
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(ELECTRONIC INDUSTRIES--HYGIEMIC ASP CTS)

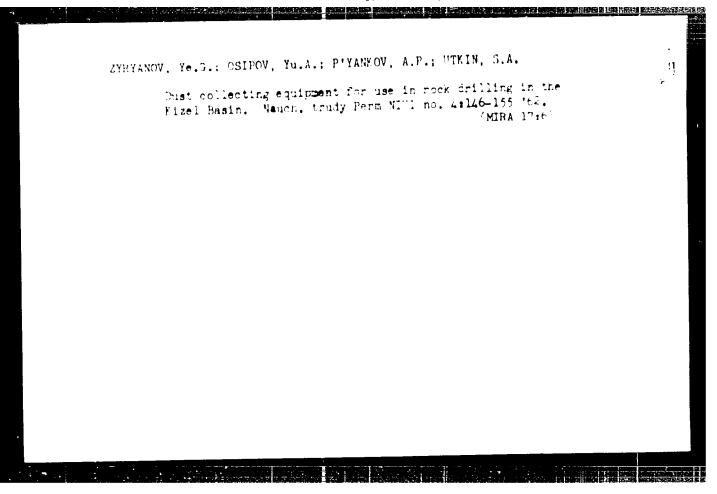
AGASHIN, Yu.A.; GRIGOR'YEV, Z.E.; KOVHATSKIY, M.A.; LEVIN, V.M.; QSIPOV, Yu.A.; RAZUNOVSKIY, M.D.; RETHEV, V.M.; YU.W.AVICH, A.Ya.

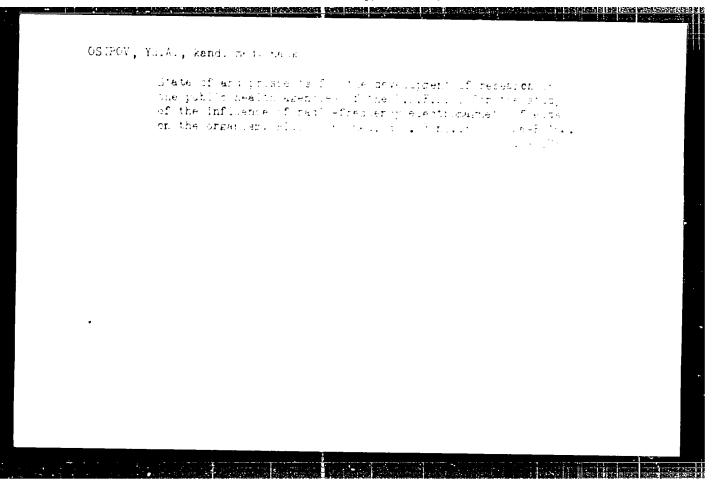
Meeting devoted to the results of the work of the Leningrai Research.
Institute on Industrial Hygiene and Occupational Diseases for 19591960. Gig. i san. 26 no.8:110-11/A &g '61. (M & 16:4)

1. Iz Leningradskogo nauchno-isslodovatel'skogo instituta gigiyany truda i professional'nykh zabolovaniy.

(INDUSTRIAL HYGI'M)



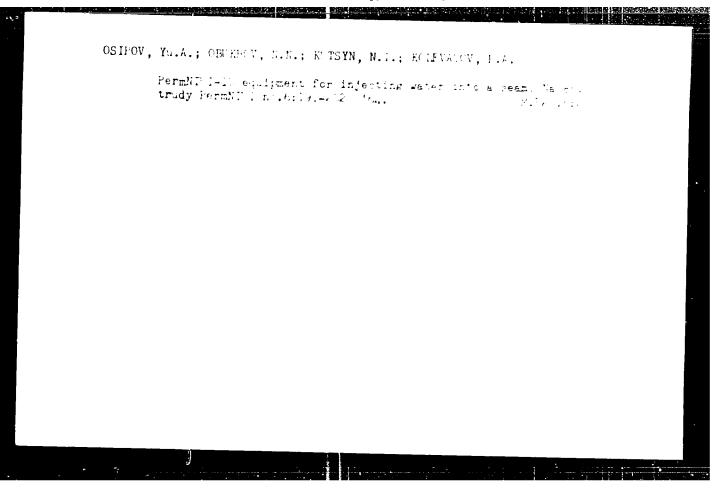


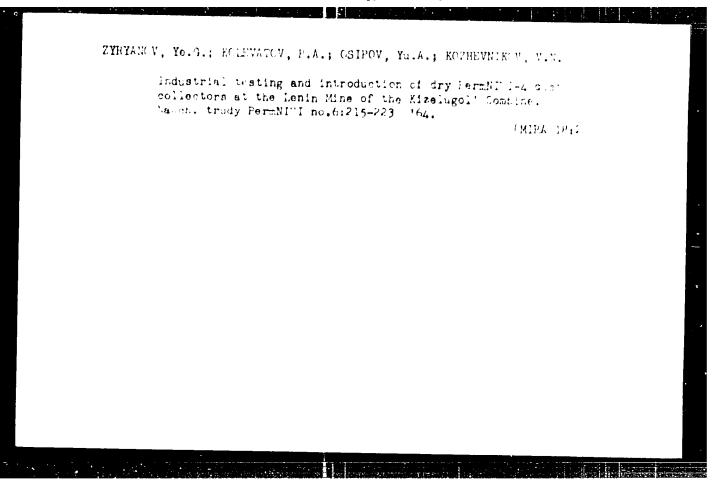


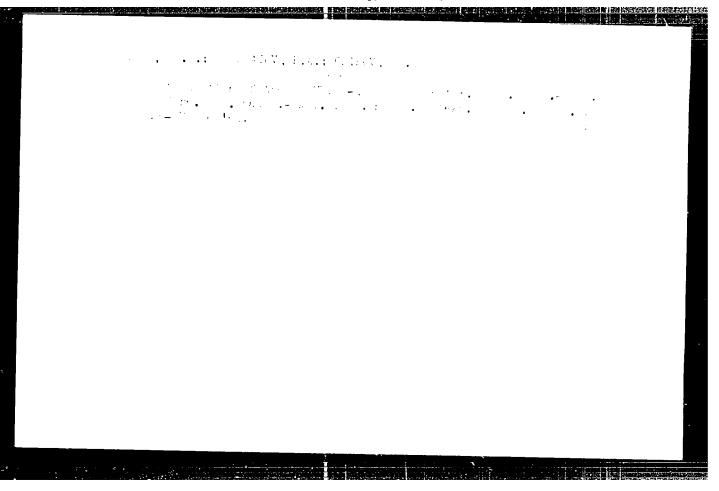
OSIPOV, Yu.A., kand. med. nauk: VOL'FOVSKAYA, R.N., kand. med. nauk; ASANOVA, T.P., kand. med. nauk; KULIKOVSKAYA, Ye. L., starshiy inzhener; KALYADA, T. . . mradshiy mushnyy sotrudnik; SHCHEGLOVA, A.V., kand. med. nauk

Combined effect of a topic frequency magnetic field and X-ray radiation in industry. Gig. i san. 18 no.6:35-39 Je\*63. (MIRA 17:4)

1. Iz Leningradsrego instituta gigiyeny truda i professional - nykh zabolevaniy.



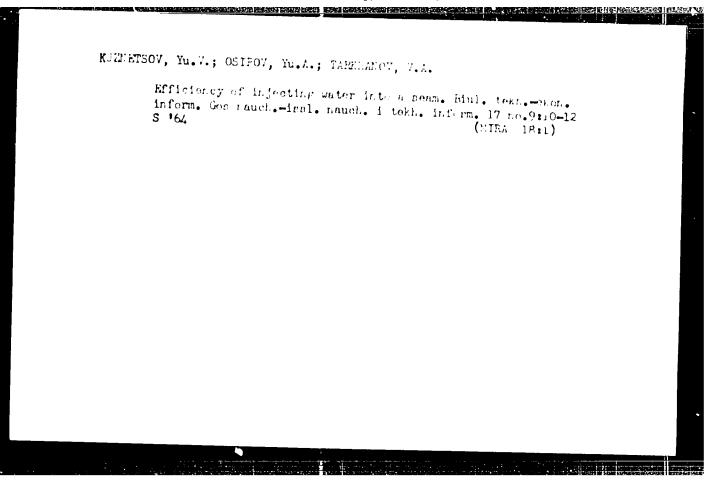




OSINCY, Yu.A.; ROLEVATOV, F.A.; SYSTEY, V.A.; TYMYADAY, YA.C., KU HEREBYY, L.V.

Proventing bumps is coal mines by pressing water into the seam. F. tekh.-ckcn.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform.12 nc. 1 12-13 J1 to...

(MIRA 17:10)



OSIPOV, Yu.A.; CHUKHOV, N.H.; KULIYA, N.H.; KKIEVATOV, H.A.

Introducing the HERMITH-16 equipment set for injecting water into a seam. Bioliteko.ecom.inform.G.s.nauco.-issl.inst.na.cr.iteko.inform.17 no.10:16-18 ) Mad. MIRA 13:4)

SHILENKOV, Viktor Rikandorovich; YZHIKH, Leonid Ivanovich;
POYELUYEV, Aleksandr Pavlovich; OSIPOV, Yu.A.,
retLenzent; BURCHAKOV, A.S., kand. tekhn.mauk, otv.
red.; LUCHKO, V.S., red.izd-va; ZHIVRINA, G., tekhn.
red.; LOMILINA, L., tekhn.red.

[Preliminary wetting of coal blocks] Predvaritel'noe
uvlazhnenie ugol'nogo massiva. Moskva, Gosgortekhizdat,
1963. 123 p. (MIRA 17:2)

1. Permskiy nauchno-issledovatel'skiy institut (for Osipov).

OSIPOV, Yu.A.; SYSUYEV, V.A.; KOLEVATOV, r.A.; GHARDADOV, C. ...
DORFYRIN, A.V.; ULITEROK, V.F.

Mining a seam subject to bumps using the method of vator
injection into the seam. Ugol' 39 no.8:65-67 Ag 'On.

1. Fermskiy nauchno-issledovatel'skiy ugol'nyy insultut ('ir Osipov, Sysuyev, Kolevatov). C. Drakta in. Kalin'na kumin ona Kizelugol' (for Bhandarov, Lobrynin, Uliterok).

KIZNETSOV, Yu.V., inzh.; TARKHANOV, V.A., inzh.; OSIPOV, Yu.A., inzh.

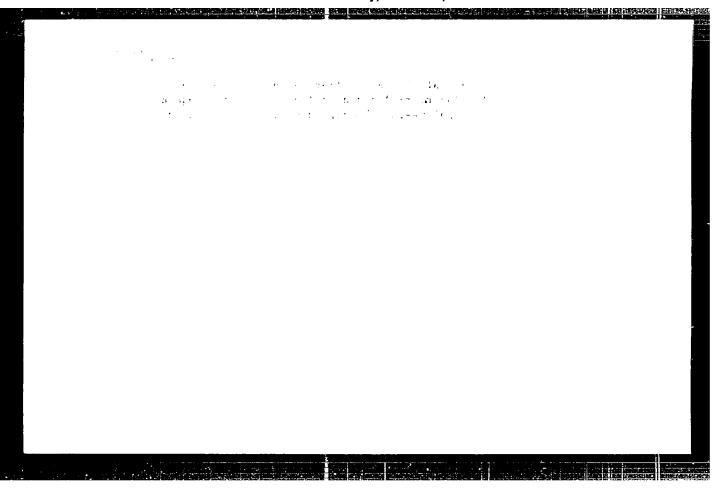
Role of weakening of the coal massif strength under the effect of water injection into the seam, in an increased labor productivity. Ugol' 40 no.11:56-57 '65. (MIRA 18:11)

1. Permskiy nauchno-issiedovatel'skiy ugol'nyy institut.

COHOV, Yuriy Aleksan sravich. Frinizal uchastiye of the NGLAYA.

Ye.L., inch.; CHACAN, I.m., ret.

[Industrial hydrone and the effect of electromorphism of a soft radio frequencies of workers] lighters trude in this native classical control of the soft comagnity of a classical control of a soft and a soft control of the soft comagnity of the soft control of the so



OSIPOV, Yu.B.

Significance of the statistical processing of the data on the resistance to the shift of clay soils. Vest. Mosk. un. for Geol. 20 no.4. Pl-85 Jl-Ag '65. (MIBA 8.9)

1. Kafedra gruntovedeniys i inshenermay geologii Moskovskogo universitets.

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EACHURIN, L. G.; GASHIN, L. I.; OSIPOV, Yu. G.

Control of the structure of crystals growing in a flow of supercooled aerosols. Dokl. AN SSSR 147 no.4:833-834 D 162. (MIRA 16:1)

1. Leningradskiy gidrometeorologicheskiy institut. Predstavleno akademikom A. V. Shubnikovym.

(Aerosols) (Crystals—Growth)

I. 11/01/1-0/2 E.T(1) IZICO AT ACC NR. AP6032020

source code: ur/0386/66/004/006/0213/0216

AUTHOR: Kitayeva, V. F.; Osipov, Yu. I.; Sobolev, N. N.

ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy Institut Akademii nauk SSSR)

TITIE: Electron temperature in the electric discharge used for the argon ion laser

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 6, 1966, 213-216

TOPIC TAGS: gas laser, argon, electron temperature, electron density, electric discharge

ABSTRACT: This is a continuation of an earlier investigation (Dokl. AN SSSR, in press) of the charged-particle concentration and the gas temperature in argon under conditions typical of the operation of a continuously operating ionic argon laser. The results indicated that the decisive influence on the ion motion in the discharge column is exerted by the drift of the ions to the wall and their recombination. The present investigation was devoted to a determination of the electron temperature in a discharge of this type. Measurements were made of the half-width of the Ar II lines radiated transverse to the discharge in a tube of 2.8 mm diameter and 40 cm length, with a bypass channel. The gas pressure ranged from 0.21 to 0.62 Torr and the current density from 150 to 350 a/cm². The results show that the width of the Ar II line increases with increasing current density. The width  $\delta\lambda_{11}$  of the line

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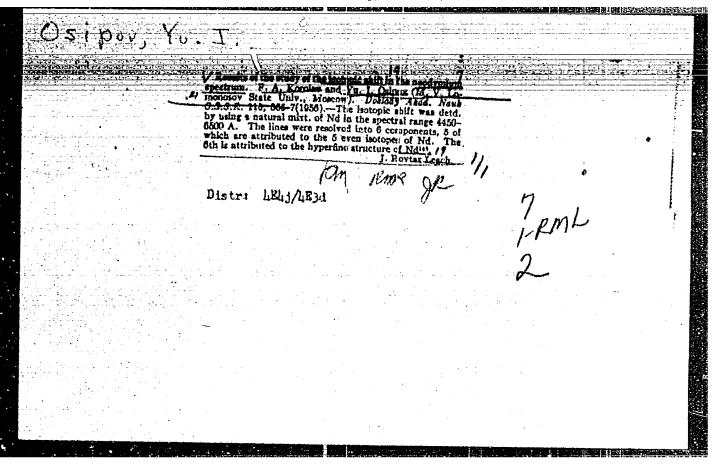
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radiated transverse to the channel exceeds the width  $\delta\lambda_{\hat{\mathbf{j}}|\hat{\mathbf{l}}}$  of the line radiated along the discharge by a factor ~1.5- 2. From the values of  $\delta k_{11}^{''}$  the authors determined the "effective temperature" of the ions transverse to the discharge and the electron temperature Te. Te increases from 5 x  $10^4$  to 9 x  $10^4$  (for  $p_{Ar} = 0.3$ ? Torr) when the current density rises from 150 to 350 a/cm<sup>2</sup>, and is expected to reach 13 x 10<sup>4</sup>K at  $j = 550 \text{ a/cm}^2$ . It follows from the results that the increase of the intensity of the spontaneous radiation of the Ar II lines and the increase of the power of the coherent radiation of the laser with increasing current density in the capillary are due primarily to the increase in the electron temperature. The electric-conductivity cross sections (Qa) calculated from the electron temperature are equal to 3 x  $10^{-16}$ cm<sup>2</sup> at 5 x  $10^4$  K and 6 x  $10^{-16}$  cm<sup>2</sup> at 9 x  $10^4$  K. The electron density Ne is also calculated from the temperature and agrees with the values experimentally determined from the half-width of the hydrogen line Hg. It is concluded that the investigations have yielded the basic characteristics of the discharge used for the argon ionic laser, which are of undisputed interest for the explanation of the mechanism that ensures population inversion. Although the increase of Te with current density is not subject to doubt, the absolute values of the temperature must be verified by other independent methods. The authors thank A. A. Rukhadze for valuable discussions and advice. Orig. art. has: 1 figure, 2 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 17 Jun66/ ORIG REF: 004

Cord 2/2



the state of the s Cathy ry - USSR / Physical Chemistry - Atom 11-1 At a lowr. Referat Zhur-Khimiya, N. 9, 1757, 27520 A.C r . Korolev F. A., Osipov Y., I. It : Academy of Sciences USSR AMARIA ALL W Title : Some Results of Investigation Is tope Shift in the Spectrum of Necdymium Cole Pati Dokl. AN SSSR, 1994, 110, N 3, 309-307 Abutra to Ar investigation of isotope shift in Nd spectrum in the region of -450-6500 A, using a natural mixture of isotopes. The light source was a tube with a hollow, water couled sathade. A table of spectrum lines with reasured isst per wift is given. There is noted a de-Thas in magnitude of is tope shift and also of the magnitude of the suider change retween the isotopes Ni -Nd with increasing wave length. 

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SOURCE CODE: UR/0020/67/172/002/0317/0319

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AUTHOR: Kitayeva. V. F.; Osipov, Yu. I.; Sobolev, N. N.

ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences, SSSR (Fizicheskiy institut Adademii nauk SSSR)

TITLE: Spectroscopic investigation of gas discharge for argon ion lasers

SOURCE: AN SSSR. Doklady, v. 172, no. 2, 1967, 317-319

TOPIC TAGS: population inversion, argon ion laser, gas discharge, Oiscanage Tobe, eas Discharge Spectroscory, ion temperature ABSTRACT: Two types of discharge tubes were used in the investivation: 1) tubes 1-3 mm vide, with capillaries approximately 300 mm long between the bulbs, for use with cw lasers, and 2) tubes 5 mm vide and 95 cm long with hot electrodes, for use with pulsed lasers. For tubes of the first type, the temperatures of the Ar ions and neutral atoms were derived from the measured width of their respective spectral lines; the ion concentrations were derived from the Stark effect exhibited by the Ha line of the hydrogen traces. The current densities were about 300 amp·cm-2; ion concentrations, about 3.5 (10<sup>13</sup>) cm-3; atom temperatures, about 2500°K (rising with current density); and ion temperatures, about 2.5 times greater than the

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atom temperatures. For tubes of the second type, an He-Ar (10:1) mixture was used. Current was applied in 4- $\mu$ sec, 6-1 ·v pulses, yielding a density of approximately 500 amp·cm<sup>-2</sup>. The atom temperatures and ion concentrations were obtained by comparing the widths of the Ha and Ha lines and by using an assumed ratic for the contribution of the Stark and Doppler effects. Temperatures from 2000 to 6000°K and concentrations from 0.8 to 20 (10<sup>13</sup>) cm<sup>-3</sup> were obtained. Electron temperatures, which are required for population inversion, were extremely difficult to determine in the investigated case. Orig. art. has: 1 figure and 2 tables. [JM]

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OSIPOV, Yuriy, Mikhaylovich, assistent, FFVUNER, Yevsey Markovich, starshiy prepodavatel', PRYANILHNIKOV, Viktor Alekseyevich, FUNTOV, Nikolay Mikhaylovich, kand. tekhn. nauk, dotsent

Parallel operation of impulse lamps. Izv. vys. ucheb. zav.; elektromekh. 6 no.10:1157-1160 '63. (MIHA 17:1)

1. Kafedra teoreticheskikh osnov elektrotekhniki Leningradskogo instituta tochnoy mekhaniki i optiki (for Osipov, Pevzner).
2. Starshiy inzhener kafedry teoreticheskikh osnov elektrotekhniki Leningradskogo instituta tochnoy mekhaniki i optiki (for Pryanishnikov).
3. Zaveduyushchiy kafedroy teoreticheskikh osnov elektrotekhniki Leningradskogo instituta tochnoy mekhaniki i optiki (for Funtov).

ACCESSION NR: AP5006635

AUTHOR: Funtov, N. M.; Smirnov, G. V.; Petrov, Ye. A.; Osipov, Yu. M.

TITLE: Comparison of several methods of converting a single electrical signal into ; series of discrete values

SOURCE: IVUZ. Priborostroyemiye, v. 8, no. 1, 1965, 55-61

TOPIC TAGS: signal conversion, continuous discrete signal conversion

ABSTRACT: In converting a single continuous signal into a series of discrete signals, it is essential to know the error that accompanies the conversion. The errors inherent to these methods are theoretically compared: (1) Conversion of voltage into a proportional time interval; (2) Use of a number of discrete levels of the comparison voltage (includes PAM); (3) Use of a number of comparison voltages proportional to the weight of binary positions. It is found that the first method requires only one-half or less the equipment necessary for the other

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ACCESSION NR: AP5006635

methods; however, it is slow and only applicable for coding signals of a few milliseconds' duration. The second method does not provide high accuracy and is suitable for recording signals of a few dozen microsecond duration. The third method is suitable for those applications where the signal is of hundreds of microsecond duration, high accuracy is not required, and the signal dynamic range is not large. Orig. art. has: 4 figures and 12 formulas.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad

Institute of Fine Mechanics and Optics)

SUBMITTED: 02Dec63

ENCL: 00

SUB CODE: DP

NO REF SOV: 001

OTHER: 000

Caro 2/2

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OSIPOV. Yu.M., inzh., FEVZNER, Ie.M., inzh., PRYANISHNIKOV, V.N.,
Impulse-type lighting system. Svetotekhnika 9 no.6:28-29
Je '63. (MIRA 16:6)

1. Leningradskiy institut tochnoy mekhaniki i optiki.
(Electric lighting)
(Photography—Electric equipment)
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KRASOVSKii, N.N. (Sverdiovsk); O.190V, Yu.S. (Sverdiovsk)

Stabilization of the motion of a controlled object with delay in a control mystem. Tav. AN SSSR. Tekh. kib. no.613-15 N-D 163. (MIRA 17:4)

L 2667-66 EAT(1)/ENT(m)/EPF(c)/FCC/EMP(j)/ENA(h) RPL WW/CS/RM/CW UR/0000/65/000/000/0392/0402 ACCESSION NRI AT5023954 AUTHOR: Byzova, N. L.; Hashkova, G. B.; Osipov, Yu. S. 4155 TITLE: Results of model experiments on the distribution of pollutants settling into the lower layers of the atmosphere under various meteorological conditions SOURCE: Nauchnaya konferentsiya po yadernoy meteorologii. Obninsk, 1964. Radioaktivnyye izotopy v atmosfere i ikh ispol zovaniye v meteorologii (Radioactive isotopes in the atmosphere and their use in meteorology); doklady konferentsii. Moscow, Atomizdat, 1965, 392-402 'TOPIC TAGS: micrometeorology, meteorological tower, serosol fallout air pollution, atmospheric boundary layer, atmospheric surface boundary layer. ABSTRACT: This paper describes and summarizes the results of a series of theoretical model and field experiments carried out between 1959 and 1963 at the 300-m meteorological tower of the Institute of Applied Geophysics at Obninsk to study the dispersion of effluents from various heights. The aerosols were spherical particles of poly[methyl]-Cord 1/2

L 2667-66 ACCESSION NR: AT5023954 methacrylate powders ranging between 10 and 100  $\mu$  in diameter. Measurements were made of four fractions ejected at speeds of 0.27, 0.17, 0.1, and  $\sim$  0.03 m/sec, at 100-200 points, 10-20 km away from the source. Heteorological parameters measured included the wind-velocity profiles, wind direction, temperature profile (daytime and nighttime inversions), and such turbulence characteristics as wind-direction pulsations. The results obtained from the field measurements are compared with those derived experimentally. Orig. art. has: 4 fermulas, 4 figures, and 4 tables. [ER] ASSOCIATION: none SUBMITTED: 28Apr65 ENCL: SUB CODE: NO REF SOV: 011 OTHER: 001 ATD PRESS: 4/0/

L 00342-66 EWT(d)/EWF(1) IJP(c) BC ACCESSION NR: AP5019615

UR/0376/65/001/007/0908/0922

AUTHOR: Osipov, Yu. S.

TITLE: On the stabilization of nonlinear control systems having a time lag in the critical case of one zero root

SOURCE: Differentsial'nyye uravneniya, v. 1, no. 7, 1965, 908-922

TOPIC TAGS: control system stability, differential equation, nonlinear control system

ABSTRACT: The control system studied is described by the following equations  $\frac{dx(t)}{dt} = Ax(t) + A_{\tau}x(t-\tau) + Bu + X(x(t), x(t-\tau), u), \qquad (1.1)$ 

where x is the state vector; u is the control vector;  $\tau$ , a positive constant, is the time lag; A, A, B are constant matrices; X is a sufficiently smooth vector function. A functional solution u is sought for the critical case of a single zero root among the class of functionals satisfying the Lipschitz conditions

 $|u_l(x^{(1)}(0)) - u_l(x^{(2)}(0))| \le l \cdot |x^{(1)}(0) - x^{(2)}(0)|_{t} \ (l = \text{const} > 0).$ 

Cord 1/2

L 00342-66 ACCESSION NR: AP5019815		//	:
class of analytic controls	and then for hon-quarters	are carried out first for the controls. An illustrative ters of (1.1). "The author aluable comments." Orig. art	
ASSOCIATION: Ural'skiy gos	udarstvennyy universitet i	~T)	
SUBHITTED: 08Feb65	ENCL: 00	SUB CODE: MA, DP	
NO REF SOV: 010	OTHER: 000		
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1 55940-65 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) Po-4/Pq-4/Pf-4/Pg-4/Pk-4/P1-4 ACCESSION NR: AP5015218 IJP(c) BC UR/0376/65/000/005/0605/06182/9 AUTHOR: Csipov, Yu. S. TITLE: On the stabilization of control systems with delays SOURCE: Differentsial'nyye uravneniya, no. 5, 1965, 605-618 TOPIC TAGS: delay control system, control system stabilization, asymptotic stability, stability theory ABSTRACT: An analysis is made of the problem of stabilizing a control system whose motion is described by the system of equations dx (1)  $= Ax(t) + A_1x(t-\tau) + Bu + X(x(t), x(t-\tau), u),$ (1)where x is an n-vector in phase coordinates; u is an r-centrol vector; A, A, and B are constant  $n \times n$ ,  $n \times n$ , and  $n \times m$  matrices;  $\tau$  is a constant delay; and  $X(x(t),x(t-\tau),u)$  is a sufficiently smooth n-vector function representing the totality of nonlinear terms of higher infin-

L 55940-65 ACCESSION NR: AP5015218 itssimal order than x(t),  $x(t-\tau)$ , and u. The stabilization problem is formulated as follows: on the basis of information obtained concerning the current state x(t) of system (1) at any instant t, it is required to form a control u(t) under which the nondisturbed motion x = 0 of system (1) is asymptotically stable. The segments of the trajectory  $x_t(\theta) = x(t + \theta) = \{x_{kt}(\theta); k = 1, ..., n; -t \le \theta \le 0\}$ . are considered as elements of the trajectory corresponding to instants t; and the control function is chosen in the form of a certain functional  $U[x_t(0)]$  which is defined on the curves  $\{x_t(0)\}$  and satisfies the Lipschits condition. To solve the stabilization problem for system (1), stabilization criteria for the corresponding linear system dx (t)  $-Ax(t) + A_1x(t-1) + Bu$ di are established first, and the control function  $U_{\epsilon}(\theta)$  stabilizing system (2) is derived in the form of a linear functional. Conditions are derived under which nonlinear system (1): a) can be stabilized by the control function derived for the linear system (2) regardless Card 2/3

L 559h0-65
ACCESSION NR: AP5015218

of the monlinear terms; b) can not be stabilized by any control function u.(\*) taken from the class of allowable control functions regardless of the nonlinear terms; c) can be stabilized by proper selection of nonlinear terms. Orig. art. has: 62 formulas. [LK]

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. A. H. Gor'kogo (Ural State University)

SUBHITTED: OBFab65 ENCL: 00 SUB CODE: HA

NO REF SOV: 013 OTHER: 002 ATD PRESS: 4032

L 17841-66 EWT(d) IJP(c) GS

ACC NR: AP6004065 SOURCE CODE: UR/0040/65/029/005/0810/0820

AUTHOR: Osipov, Yu. S. (Sverdlovsk)

ORG: none

TITLE: On the principle of information in critical circumstances of stability of system motion with a time delay

SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 5, 1965, 810-820

TOPIC TAGS: differential equation, differential operator, time lag theory, system analysis, motion equation, motion stability, ordinary differential equation

ABSTRACT: The problem of the stability of steady motions described by ordinary differential equations with time delay is studied. The characteristic equation of the first order approximation system has m roots with zero real parts and does not have roots with positive real parts. The system is described by the equation

 $\frac{dx(t)}{dt} = Ax(t) + A_{\tau}x(t-\tau) + X(x(t), x(t-\tau))$ 

where x is an n-vector; T = constant > 0 is the value of the delay; A and A are constant matrices of like dimensions; X(x,y) is an n-vector function, which

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in the domain

 $|x| < H, \quad |y| < H \qquad (H = \text{const})$ 

satisfies the Lipshits condition

 $|X(x^{(1)}, y^{(1)}) - X(x^{(2)}, y^{(2)})| \le q(|x^{(1)} - x^{(2)}| + |y^{(1)} - y^{(2)}|)$ 

The variable q is given by

 $q = L(|x^{(1)}| + |x^{(2)}| + |y^{(1)}| + |y^{(2)}|)^{\mathsf{Y}},$ 

where L,  $\gamma$  are positive constants. In the space  $C_{[-\tau,0]}$  the operator  $dx_t(\vartheta)/dt = Px_t(\vartheta) + R[x_t(\vartheta), x_t(-\tau)]$ 

corresponds to the system equation (see N. N. Krasovskiy. Nekotoryye zadachi teorii ustoychivosti dvizheniya. Fizmatgiz, 1959). Conditions of system stability are developed and comparison is made with systems described by means of ordinary differential equations developed by I. G. Malkin (Teoriya ustoychivosti dvizheniya. Gostekhizdat, 1952). It is shown that, as in the case of ordinary equations, the problem is equivalent to the problem on the stability of motion of a certain infinitely-dimensioned subsystem of order m. The subsystem problem is obtained through separation of the critical degrees of freedom. This analysis leads to an approach to the theory of critical conditions of systems with aftereffect. This approach is developed by S. N. Shimanov (Kriticheskiy sluchay pary mninykh korney

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L 17841-66 ACC NR: AP6004065 dlya sistem s posledeystviyen. PAM, 1961, t. 25, vyp. 3). The author thanks N. N. Krasovskiy for his valuable comments. Orig. art. has: 93 equations and 1 figure. SUB CODE: 12,20 / SUBM DATE: 30Mar65/ ORIG REF: 006

3/3 nat

L 23422-66 ENT(1)/FCC/T JK/GN

ACC NR: AT6012593

SOURCE CODE: UR/3201/65/000/002/0065/0073

AUTHOR: Byzova, N. L.; Osipov, Yu. S.

24 B+1

ORG: Institute of Applied Geophysics (Institut prikladnoy geofiziki)

TITLE: Distribution during inversions of heavy pollutants in the lower layer of the atmosphere

SOURCE: Leningrad. Institut prikladnoy geofiziki. Trudy, no. 2, 1965, Pogranichnyy sloy atmosfery (Boundary laye: of the atmosphere), 65-73

TOPIC TAGS: micrometeorology, meteorologica tower, air pollution, inversion, atmospheric aerosol distribution, atmospheric boundary layer, surface boundary layer

ABSTRACT: Results are presented for two series of model experiments set up to study the distribution of pollutants in the lower layer of the atmosphere during inversions. Observations were made at night for one year, with daytime measurements also made in the winter and early spring. Use of the instruments at the 300-m meteorological tower made it possible to determine the wind speed and temperature profiles and gradients at the height of 8 m, the wind direction profile from 8 m to 300 m, and the fluctuations in wind direction. Twenty-five experiments were made for inversions in the autumn-winter season of 1962-1963. The point source height varied between 50 and 300 m over periods lasting 10-h0 min. The aerosols made were aphenical particles with a rate of gravitational settling w varying from 0.005-0.3 m/sec.

# ACC NR: AT6012593 Results of these experiments are presented in tabular form. Except for a few corrections, analytical procedures used in studying pollutant distribution were similar to those used by Aleksandrova, Byzova, and Mashkova, as reported in the second report on the research carried out at the 300-m meteorological tower (insecond report on the lower 300-meter layer of the atmosphere, Academy of Sciences, vestigation of the lower 300-meter layer of the atmosphere, and the USSR, 1963). Experimental and calculated pollutant fallouts are compared, and the results are presented in graphs. Special features noted for pollutant distribution results are presented in graphs.

results are presented in graphs. Special features noted for political descriptions, not found for other types of stratification, were as follows:

during inversions, not found for other types of stratification, were as follows:

in one instance, the plume was sharply bent (probably related to the effect of in one instance, a weakly poorly expressed relief on the wind direction); and in another instance, a weakly expressed maximum in precipitation density was detected. Orig. art. has: 5 figures, [ER]

1 formula, and 4 tables.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 009/ OTH REF: 001/ ATD PRESS:4233

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AT6012600 ACC NRI

UR/3201/65/000/002/0130/0136 SOURCE CODE:

1%

AUTHOR: Osipov, Yu. S.

ORG: Institute of Applied Geophysics (Institut prikladnoy geofiziki)

2

TITLE: Modeling methods for investigating the distribution of pollutants in the

lower layer of the atmosphere SOURCE: Leningrad. Institut prikladnoy geofiziki. Trudy, no. 2, 1965. Pogranichny

sloy atmosfery (Boundary layer of the atmosphere), 130-136

TOPIC TAGS: micrometeorology, atmospheric pollution, atmospheric boundary layer, pollutant distribution modeling

ABSTRACT: The author gives a short review of the multiplicity of experiments which have been carried out by Soviet and non-Soviet investigation to study the pollutant distribution in the lower leyer of the atmosphere. Emphasis is on techniques with no discussion of results. Projects such as "Prairie Grass," Round Hill," and "Green Glow" are described, as are studies of industrial pollution carried out in the United States, Japan, England, Germany, and the USSR. The use of tracers and filters, the thermal and electrostatic collection of particles, and sample analysis, especially optical methods, are enumerated (photography and movies).

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 029/ ATD PRESS:

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UDC: 551.506+508+508.2+508.5+510

S/170/61/004/004/001/014 B116/B203

26.2160

AUTHORS:

Kosterin, S. I., Koshmarov, Yu. A., Osipov, Yu. V.

TITLE:

Effect of the divergence angle on the position of the compression jump in a supersonic nozzle under uncalculated conditions with existence of a heat exchange

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 4, no. 4, 1961, 3-9

TEXT: The present paper gives results of experimental studies of a flat supersonic nozzle with wedge-shaped supersonic part under uncalculated conditions with existence of a heat exchange. Relations between the divergence angle of the supersonic part of the nozzle and the position of the compression jump are obtained. The results are generalized for the case of axisymmetric, conical nozzles. Some recommendations for calculations are given. A flat model of a supersonic nozzle was prepared. The investigations were carried out in the range of those Re and M numbers which determine flow conditions and heat exchange characteristic of real engines. The medium used was compressed air delivered from a piston compressor (02kg/sec at 8 atm). The compressed air was heated in an

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CIA-RDP86-00513R001238 APPROVED FOR RELEASE: Wednesday, June 21, 2000

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Effect of the divergence angle ...

electric furnace, then passed to the test stand, and from there vin three coolers and four forepumps conducted into the open air (Fig. 1). The flow part of the nozzle was formed by two symmetrical, movable jaws. The angle of the supersonic part could be varied between 0 and 50°. The nozzle entrance was formed by two symmetrical arcs. Thus, the subsonic part maintained the same form in all experiments. The thickness of the boundary layer at the front sides of the plates (helding the jaws together; was calculated by the method of Kalikhman (Ref. 6: M. Ye. Kalikhman, Gazodinamicheskaya teoriya teploobmena. (Gasdynamic theory of heat exchange). Oborongiz, 1946), and was less than 1 mm at the nozzle end. The critical cross section of the nozzle model was 31 mm high, and 6.82 mm wide. For measuring the distribution of static pressures over the length of the nozzle, 14 bores (0.8-0.9 mm diameter) were made every 15 mm along the axis of the nozzle canal. In visual observation, the static pressures were measured on the nozzle wall formed by the movable jaw with 14 bores of the same diameter. For an accurate determination of the compression zone and the burble point of the boundary layer, the authors made visual studies with photographs of the flow. Fig. 2 gives the results of evaluation of experimental data. A special investigation showed that the Card 2/10

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Effect of the divergence angle...

change in flow parameters due to the variable thermal conductivity of the gas along the nozzle can be neglected up to M = 3.5-4.0. The experiments showed that a system of overlapping curved compression jumps was formed in the nozzle under all conditions. The values of  $(F_{jump}/F_*)_w$ ,  $(F_{jump}/F_*)_0$ . ( $p_0/p_{00}$ ), and ( $p_0/p_{00}$ ) were determined for every divergence angle and every mode of operation according to the measurements along the flow axis and on the nozzle wall. F jump is the cross section area where the jump drops,  $F_{\bullet}$  is the area of the critical cross section,  $p_{0}$  is the static pressure before the jump, and  $p_0^{\prime\prime}$  that after the jump; the index w refers to the parameters on the nozzle wall, and the index O to the parameters measured along the flow axis. Fig. 3 shows that the ratio  $p_0/p_0 \cong p_0/p_a$ does not maintain the value of 0.4 recommended by Sammerfield (Ref. 3: M. Sammerfield Jet Propulsion, vol. 24, no. 5, 1954). Fig. 4 illustrates the experimentally established effect of the divergence angle & on the position of the compression jump; it also considers results found by K. Scheller and D. A. J. Bierlein (Ref. 2: Amer Rock., Soc., vol. 23, Card 3/10

S/170/61/004/004/001/014 B116/B203

Effect of the divergence angle ...

no. 1, 1953) and by M. Ye. Deych (Ref. 1: Tekhnicheskaya gazodinamika. (Technical gas dynamics), 1953). The position of the compression jump  $(F_{jump}/F_{\bullet})_{w} = f(\alpha)$  can be determined from diagrams (as shown in Fig. 4), but it is more convenient to use empirical formulas. The authors recommend empirical formulas established on the basis of an approximation of the experimental results obtained, for the position on the nozzle wall:  $(F_{jump}/F_*)_w = 1.5 + 0.23 (p_{00}/p_a) - K \alpha^n$ , and on the flow axis:  $(F_{jump}/F_*)_0 = 1.5 + 0.23 (p_{00}/p_a) + K x^n$ , where  $K = f(p_{00}/p_a)$ . In the range of divergence angles between O and 15°, K may be assumed equal to zero: between 15 and 50°, K is determined from K = 0.00645( $p_{00}/p_a$ ) - 0.029.  $n = 0.95 \stackrel{\bullet}{\longrightarrow} 0.98$ . The formula for determining the jump peak holds for flat nozzles, and should be checked for round ones. With the aid of the experimentally found relations it is also rossible to establish approximately the shape of the jump within a flat, conical nozzle for various divergence angles, and to determine the angle  $\beta_{\mbox{jump}}$  of the oblique jump It was found that the shape of the jump greatly depended on the nozzle Card 4/10

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Effect of the divergence angle...

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divergence angle, the jump was asymmetrical, and a periodic shift of the interrupted jet from one side wall of the nozzle to the other occurred with certain divergence angles, the frequency of such shifts depending on the nozzle divergence angle. Finally, the authors clarified some phenomena occurring with an increase of the heat exchange in the jump zone and in the zone after the jump. There are 5 figures and 6 references: 2 Soviet-bloc and 4 non-Soviet-bloc.

ASSOCIATION: Energeticheskiy institut im. G. M. Krzhizhanovskogo AN SSSR, g. Moskva (Power Engineering Institute imeni

G. M. Krzhizhanovskiy of the AS USSR, Moscow)

SUBMITTED: October 8, 1960

Legend to Fig. 1: (I) Diagram of the test stand: (1) Flow-adjusting plate, (2) electric furnace, (3) test section, (4) cooler, (5) block of EH-6 (VN-6) forepumps. (II) Design of the test section (visual variant). (III) Diagram of two variants of the nozzle flow part.

Card 5/10

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5/170/62/005/004/001/110 B104/P108

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Mosterin, M. I., Moshmarov, Yu. A., Osipov, Yu. V. 

71. LE:

Investigation of flow and heat transfer of a rarefied ges in a flat supersonic nozzle

: UI 110 1: Inzhenermo-fizioneskiy zhurnal, v. 5, no. 4, 1962, 4-6

T. 27: .arefied air was used to investigate the flow and heat transler at the ranges of the  $\chi/M=5-5$  and  $T_{W}/T_{00}=0.7-0.8$  (Fig. 1). The night st possible uniformity of flow at the entrance of the nozzle was acrieved by applying a grid. The flat nozzle consisted of two metal aboes (part to

Fig. 1) which are clamped between two plates of quartzglass. The surfaces of the metal shoes are smoothly ground, the metal shoes themselves can be adjusted so as to permit the study of flows at various aperture angles of the nozzle. The treadth-to-height ratio of the rectangular channel was chosen such, that an almost plane flow existed in the central region of the channel. The conditions under which experiments were carried out provided an isentropic flow core. According to the test conditions,

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

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Investigation of flow and heat...

the cross section of this eare ranged from '5'; mm to 15:15 mm. April the tests, the width in the critical cross section was varied retained and domestation of the heat transfer coefficient and of disclarement thickness from values predicted by the continuum theory was discovered (big. 1). There are forgures and 17 references if soviet and 15 has soviet. The four ment recent references to English-large resulting read as follows: X. Hasimoto, JAS, 25, no. 1, 10:8; Y. Liu, ... Thuid Mechanics, 1, p. 7; ... Howard, Emmons, Pundamentals of the Dynamics, 1058; L. Javaneu, Trans. ASME, 77, 617, 1055.

AJ WASH, Teacow)

373717725: January 2., 1962

Fig. 1. Test arrangement. Legend: (1) fore-vacuum pump; (7) hi/h-vacuum pump; (5) cooling spirals; (4) pressure chamber; (5) electrical gas heater; (6) nozzle; (7) jet arrester; (8) air drier; (9) air

Gard 2/4

KOSTERIN, S.I.; KOSHMAROV, Yu.A.; OSIPOV, Yu.V.

Note on our article published in IrZh no.4, 1962. Ingh. -fiz. zhur.
(MIRA 15:12)
5 no.10:137-138 0 '62. (Nozzles)

ENT(1)/ENT(m)/T/ENP(t)/ENP(b) IJP(c) JD  AP6002091 SOURCE CODE: UR/0139/65/000/006/0:  Osipov, Yu. V.	<b>.</b>
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ningrad Electrotechnical Institute (Leningradskiy ele	ktro-
Exciton absorption in germanium in the direct-transit	ion
IVUZ. Fizika, no. 6, 1965, 162-163	
S: exciton absorption, germanium, light absorption, absorption spectrum, optic transmission, absorption	Price I
The author presents the results as 21,	yu. v.
less than or equal to the width of the forbidden band ensity. 1.8 x 10 <sup>14</sup> cm <sup>-3</sup> and resistive.	al ab-
ensition. The studies were made with an n-type sample and resistivity $\sim 20$ ohm-cm) with an in-type sample and resistivity $\sim 20$ ohm-cm)	e with
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and resistivity ~ 20 ohm-cm) w	e with

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ACC NR: AP6026671 ENT(1)/ENT(m)/T/ENP(t)/ETI IJP(c) JD/GG SOURCE CODE: UR/0181/66/008/008/2280/2292

AUTHOR: Osipov, Yu. V.

ORG: Leningrad Electrical Engineering Institute im. V. I. Ul'yanov (Lenin) (Leningradskiy elektrotekhnicheskiy institut)

TITLE: Effect of strains on the optical spectrum of direct excitons in germanium

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SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2280-2292

TOPIC TAGS: germanium single crystal, single crystal film, exciton, crystal optic property opric Specifican

ABSTRACT: The transmission spectra of n-Ge single-crystal films oriented in the (001) (111), (110), and (112) planes and subjected to static tensile and compressive strains are investigated experimentally at 77K in the region of direct exciton transition in the center of the Brillouin zone (point k = 0). The strains are produced in the cooling process of a Ge film together with its isotropic substrate, due to the difference in their thermal linear expansion coefficients. The strain potential constants of the electron states in the valence band of germanium (at k = 0) are calculated from the anisotropic exciton splitting observed in the case of compressive strains, with the aid of the so-called interband approximation (which assumes that band splitting at k = 0 is large compared to the exciton binding energy (2  $\triangle > E(0)$ ) and that the exciton splitting

Cord 1/2

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ACC NR: AP6026671

4

observed corresponds to the splitting of the valence bands at k=0). It is found that  $|D_{ij}|=1.2\pm0.4$  ev and  $|D_{ij}|=8\pm1$  ev per unit shearing stress in the (001) and (111) directions and that the mean value of the constant  $D_0^2 - D_0^2 = -10.5\pm1$  ev per unit cubic expansion of the lattice. The binding energies of the principal s-states of the excitons, which result from the split valence bands  $V - (m \perp / m_{11} > 1)$  and  $V + (m \perp / m_{11} < 1)$  are calculated, in the effective mass approximation, for E = 00 &  $E \neq 0$  in the  $\{001\}$  and  $\{111\}$  directions. Strain splitting and shear in direct exciton transition are examined with allowance for the effect of exciton binding energy at k=0. The author is indebted to B. P. Kozyrev for his support in this work, V = M. Chulanovskiy for the use of a spectrometer, and G = V = N and G = V = N and G = V = N are calculated, in the effective mass approximation methods and their critical remarks in discussing the results of this work. Orig. art. has: 3 figures, 3 tables, and 16 formulas.

SUB CODE: 20/ SUBM DATE: 01Nov65/ ORIG REF: 006/ OTH REF: 035

Cord 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

OSIPOV, Z., polkovnik; BEZIMMEZHNYKH, P.T., podpolkovnik, redaktor;
SEMPTSOVA, Ye.N., tekhnicheskiy redaktor.

[Solicitude of the Communist Party for strengthening the active defense of the U.S.S.R.] Zabota Kommunisticheskoi partii ob ukreplenii aktivnoi oborony SSSR. Moskva, Voennoe izd-vo, 1953. 71 p.

(MLRA 7:4)

(Russia--Defenses) (Communist Party of the Scylet Union)

124-57-2-2302

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 119 (USSR)

AUTHOR: Osipov, Z.G.

TITLE: How to Determine the Natural Angles of Repose of the Loess type

Clays of Central Asia (K voprosu opredeleniya uglov vestestien:

nykh otkosov lessovidnykh suglinkov Srednev Az i)

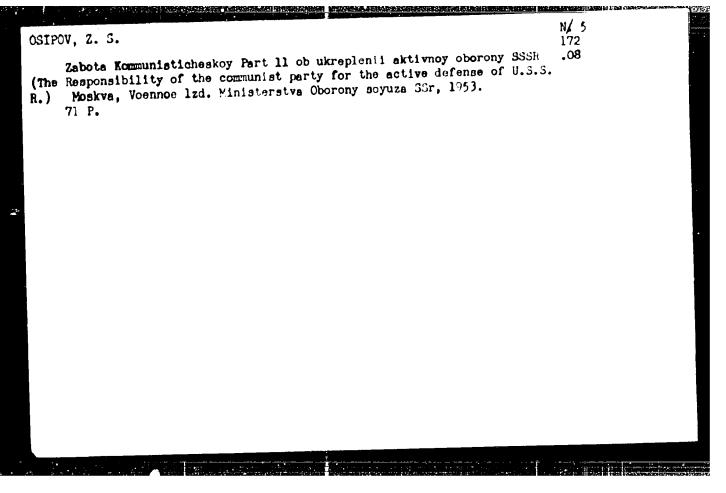
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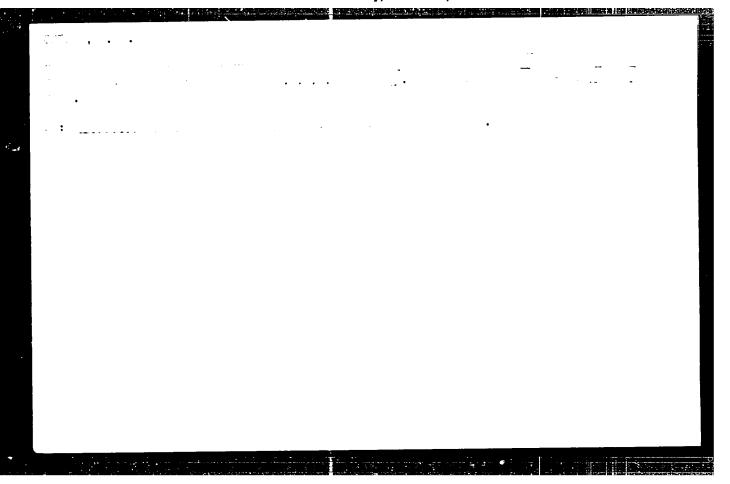
1955, pp 267-275

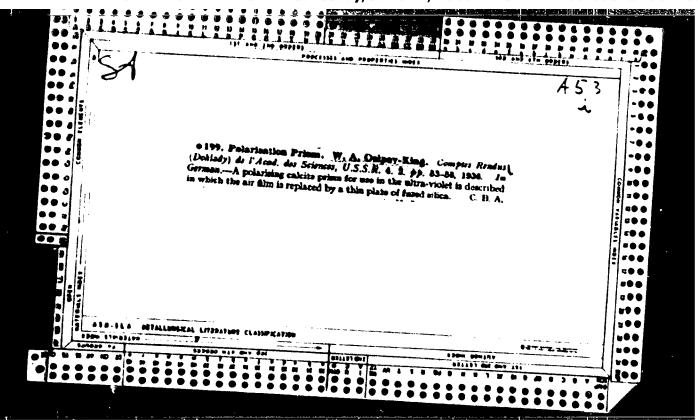
ABSTRACT: Bibliographic entry

1. Clays--Physical properties

Card 1 1







OSIPOV, Z. G. Cand Tech Sci -- (diss) "Flat INNX Ferro-Brick Overlaps." Mos, 1957. 14 pp 22 cm. (Academy of Construction and Architecture USSR, Central Scientific Research Inst of Six Structural Constructions TSNIISK), 150 copies (KL, 27-57,107)

- 36 -

SOV 124-58-3-3401

Translation from: Referativnyy zhurnal Mekhanika, 1958 Nr.3 p., 18 (USSR)

AUTHOR: Osipo: Z. G

TITLE: Plane Steel reinforced Brick Coverings (Ploskiye zhelezokir

pichnyye perekrytiya)

PERIODICAL: Tr. Sredneaz politekhn in ta. 1957, Nr 1, pp 11-23

ABSTRACT: Bibliographic entry

Card I I

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ZARUBIN, A.I., polkovnik; OSIFOV, Z.S., general-mayor, red.; ORLOV, P.C., red. izd-va; MEDNIKOVA. A.N., tekhn. red.

[Let's be friends with technology; experience in the promotion of technological knowledge in the Soviet Army and Navyl V druzhbe a tekhnikoi; opyt voenno-tekhnicheskoi propagandy v Sovetskoi Armil i Voenno-Morskom Flote. Moskva, Voen. izd-vo M-va obserony SSSR, 19el. (MIRA L/:11)

[Milary art and science] (Mechanization, Military)

The little section is a second second

BELIKOV, M.A., polkovnik, red.; LUKANIN, Ye.A., gvardii polkovnik, red.; OSIPOV, Z.S., general-mayor, obshchiy red.

[Manual on political studies for soldiers and sailors] Uchabnoe posobie po politicheskiu zanistiiam dlin soldat i matrosov.

Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 557 p. (MIRA 12:12)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. Glavnoya politicaeskoya upravleniya.

(Russia--Armed forces--Education, Nonmilitary)

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O.HOVA, A. sture ty funtrukto proizvodatvoluogo obucheniya; ZAVENZEROV, A prointepen their (Semipalatinsk): NIROLAYERRO, R.; UAANSERY, L. From or mail. Obunchest.pit. no.3:45 Mr. '62. (MIra 19...)

1. slagovesnenskaya shkola torgove-kulin imogo ucinichestva, Amirskaya obl. (for Sigova). L. Kachallinik otdela orgtekhniki obel'skogo oblastnogo soyuza potrebitalinika kooperatsiy (for themskly).

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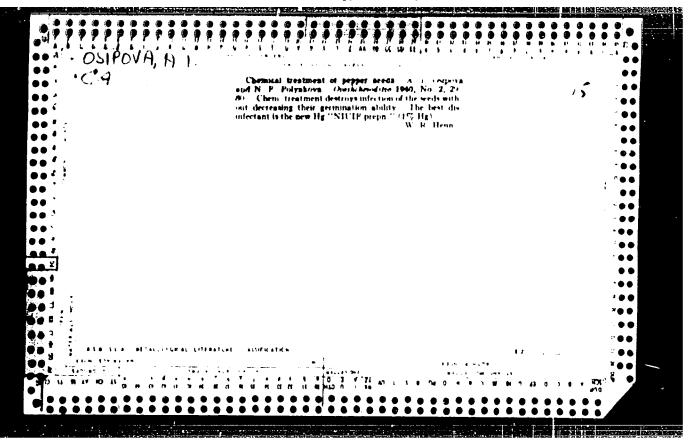
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1.	OSIP	DAW	

- 2. USSR (600)
- 4. Loans, Personal
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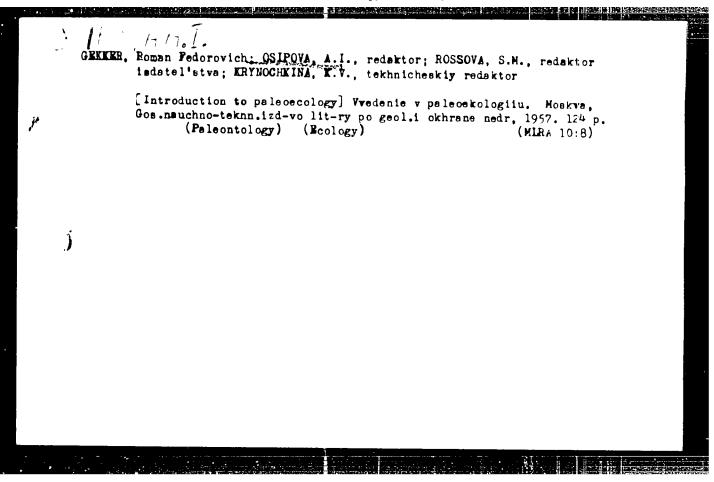
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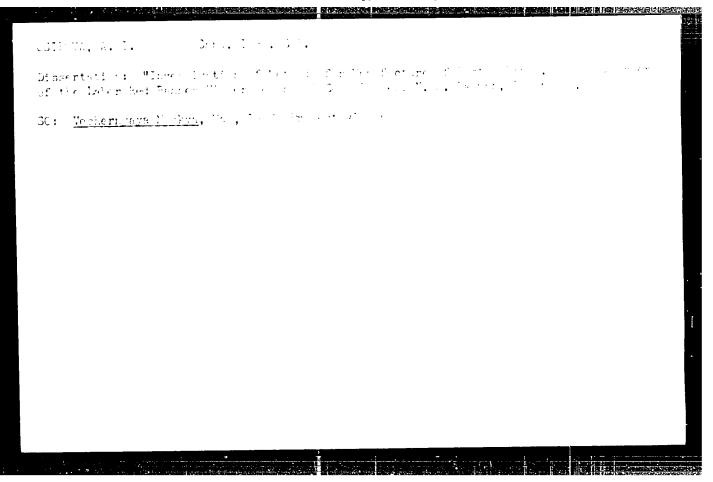


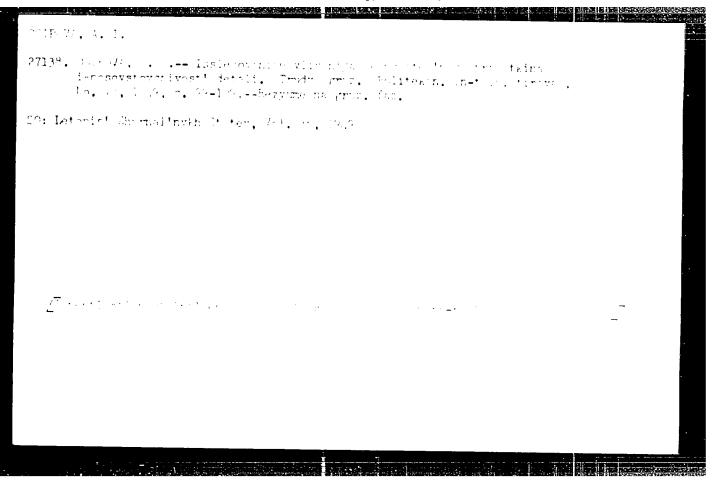
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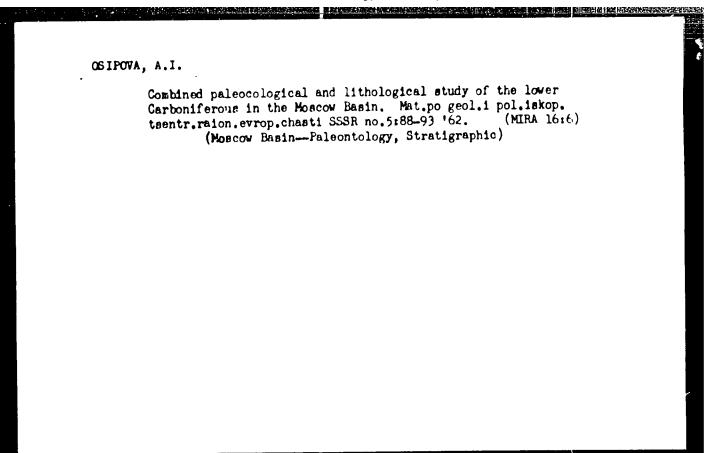
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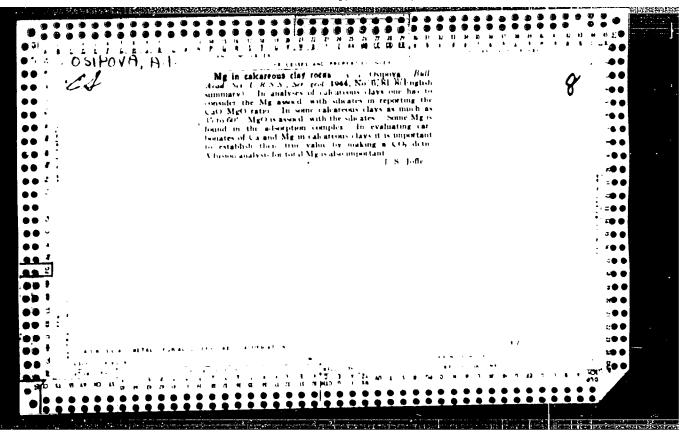
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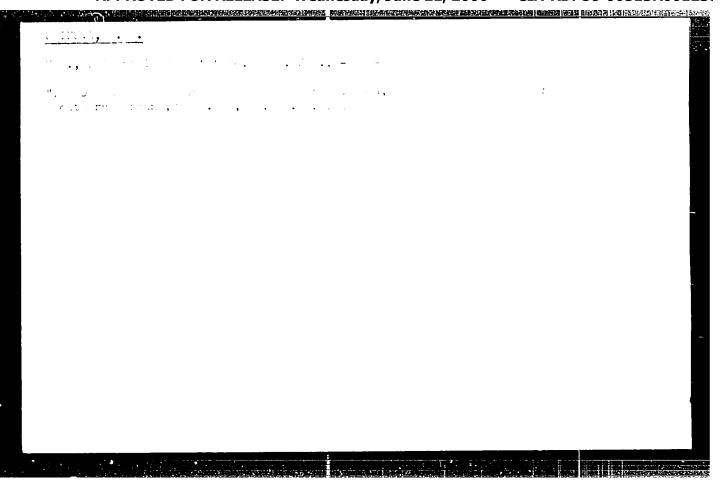












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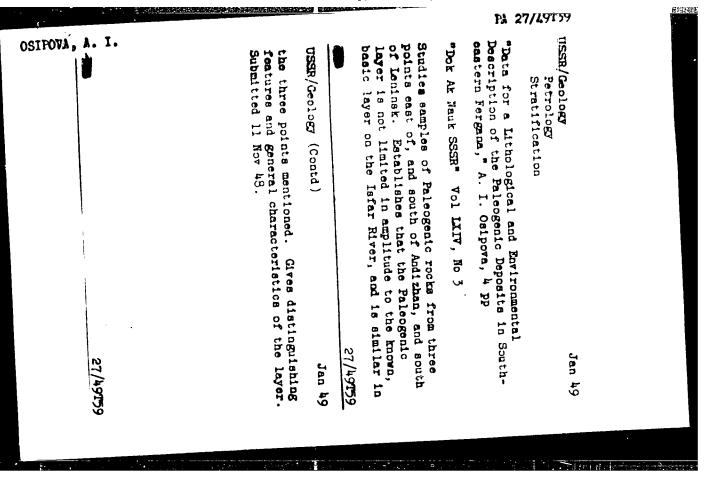
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